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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,147	10/14/2003	Dan DeLessert	PI-30075	6211
7:	590 06/03/2005		EXAMINER	
Langlotz Patent Works, Inc.			HAMMOND, BRIGGITTE R	
Bennet K. Lang P.O. Box 759	glotz, Patent Attorney ART UNIT PA		PAPER NUMBER	
Genoa, NV 89	9411		2833	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/686,147	DELESSERT ET AL.			
		Examiner	Art Unit			
		Briggitte R. Hammond	2833			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with	the correspondence address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATION mailtains of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, at period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rep reply within the statutory minimum of thirty (riod will apply and will expire SIX (6) MONThe atute, cause the application to become ABA	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication NDONED (35 U.S.C. § 133).	on.		
Status						
1)⊠	Responsive to communication(s) filed on 1	4 March 2005.				
2a)⊠	This action is FINAL . 2b)	This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) 1-29 is/are pending in the applicate 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-6,9-19,21-26,28 and 29 is/are re Claim(s) 7,8 and 20 is/are objected to. Claim(s) are subject to restriction are	drawn from consideration. ejected.		14		
Applicat	ion Papers					
9)	The specification is objected to by the Exan	niner.				
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to		· ·			
11)	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·	•	(d).		
Priority (under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for force All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu See the attached detailed Office action for a	nents have been received. nents have been received in Ap priority documents have been re reau (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachmer		" C				
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/SE er No(s)/Mail Date		Mail Date ormal Patent Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6,9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hadwin et al. 4,739,259 and Bender et al. 4,209,742 and further in view of Belart 2,849,681. Regarding claims 1 and 5, Hadwin discloses the invention substantially as claimed. Hadwin discloses an electrical probe 12 comprising: a conductive sleeve 44 defining a bore; a probe pin 26 received in the bore; the probe pin having a metal free end contact tip 30 extending in a first direction; the probe pin being biased (spring loaded) in the first direction; and the probe pin including an electrical component 34. Hadwin does not disclose the electrical component serially intervening between the free- end contact tip and an opposed end of the pin nor the component reciprocating with respect to the sleeve. However, Bender et al. discloses a probe 10 having electrical components (col. 2, lines 50-58) serially intervening between a free-end contact tip 16 and an opposed end 21 of the pin. And Belart discloses a probe with a component 22 reciprocating with respect to sleeve 20. It would have been obvious to one of ordinary skill to modify the probe pin of Hadwin by providing an electrical component serially intervening between the free- end contact tip and an opposed end of the pin as taught

by Bender et al. and also obvious to provide the component reciprocating with respect to sleeve for impedance as taught by Belart.

Regarding claims 2-4, the electrical components on Hadwin and Bender et al. include a resistor and capacitor in parallel.

Regarding claim 6, the first and second portions of Hadwin are not insulated. However, Bender et al. discloses first and second portions electrically isolated by insulator 22. Therefore, it would have been obvious to one of ordinary skill to modify the connector of Hadwin by providing the first and second portions with an insulator for electrical insulation as taught by Bender et al.

Regarding claims 9 and 10, Hadwin and Bender et al. disclose the invention substantially as claimed except for the second portion of the pin having a length less than double its diameter or less than 0.50 inch. However, it would have been obvious to one of ordinary skill to modify the probe pin of Hadwin by providing the second portion of the pin having a length less than double its diameter or less than 0.50 inch or any other size for design specifics for a client, since it has been held that the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claims 13, 15,16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Calma et al. in view of Bender et al. Regarding claim 15, Calma et al. disclose the invention substantially as claimed. Calma et al. discloses each pin having first and second conductive portions 19, 22. Calma et al. do not disclose the component being between the first and second portions. However, Bender et al.

discloses a probe 10 having electrical components (col. 2, lines 50-58) serially intervening between a free-end contact tip 16 and an opposed end 21 of the pin. Therefore, it would have been obvious to one of ordinary skill to modify the probe pin of Calma et al. by providing an electrical component between the free- end contact tip and an opposed end of the pin as taught by Bender et al. to minimize stay capacitance effects.

Regarding claim 13, Calma et al. do not disclose the component being a capacitor and resistor in parallel. However, Bender et al. teach the combination of a capacitor and resistor in parallel. It would have been obvious to one of ordinary skill to modify the connector of Calma et al. by providing a capacitor and resistor in parallel to compensate frequency as taught by Bender et al.

Regarding claim 16, the first and second portions of Calma et al. are not insulated. However, Bender et al. discloses first and second portions electrically isolated by insulator 22. Therefore, it would have been obvious to one of ordinary skill to modify the connector of Calma et al. by providing the first and second portions with an insulator for electrical insulation as taught by Bender et al.

Regarding claim 18, the above mentioned limitations are not patentably significant since they relate to the size of the article under consideration which is not ordinarily a matter of invention. In re Yount, 36 C.C.P.A. (Patents) 775, 171 F. 2d 317, 80 USPQ 141.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Calma et al. and Bender et al. as applied to claim 15 above, and further in view of Hadwin et al. 4,739,259. Calma et al. disclose the probes being arranged at a first pitch distance. Neither Calma et al. nor Bender et al. disclose the second portion of the pin having a length less than the first pitch distance. However, Hadwin et al disclose a pin probe having first and second portions 30,28 respectively, wherein the second portion of the pin has a length less than the first pitch distance between probes 12,14.

Claims 24,25,28 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hadwin et al. in view of Bender et al. Hadwin et al. discloses the invention substantially as claimed. Hadwin et al. do not disclose the electrical component being connected between the first and second portions. However, Bender et al. discloses a probe 10 having electrical components (col. 2, lines 50-58) serially intervening between a first portion 16 and a second portion 21 of a pin. Therefore, it would have been obvious to one of ordinary skill to modify the probe pin of Calma et al. by providing an electrical component between first and second portions of the pin as taught by Bender et al. to minimize stray capacitance effects.

Regarding claim 25, Bender et al. discloses first and second portions electrically isolated by insulator 22. Therefore, it would have been obvious to one of ordinary skill to modify the probe of Hadwin et al. by providing the first and second portions with an insulator for electrical insulation as taught by Bender et al.

Regarding claims 28 and 29, Hadwin and Bender et al. disclose the invention substantially as claimed except for the second portion of the pin having a length less than double its diameter or less than 0.50 inch. However, it would have been obvious to one of ordinary skill to modify the probe pin of Hadwin by providing the second portion

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of the pin having a length less than double its diameter or less than 0.50 inch or any other size for design specifics for a client, since it has been held that the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hadwin et al. and Bender et al. as applied to claims 5 and 24 above, and further in view of Calma et al. Hadwin et al. nor Bender et al. disclose the first and second portions each having a flange. However, Calma et al. disclose a probe pin with first and second portions 19,22 each having a flange (not numbered, see fig.2, area between 18 and 19' and area between 11 and 22), the flanges being spaced apart and connected (electrically) to the electrical component 8. Therefore, it would have been obvious to one of ordinary skill to modify the probe of Hadwin et al. and Bender et al.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 12, 14 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Calma et al. 4,904,935. Calma disclose an electrical connector 10 comprising a body 4, a plurality of probes 30 connected to the body, each probe having a spring biased pin with a metal contact tip 18; and each pin including an

electrical component 8 proximate the tip and serially intervening (electrically) between the tip and an opposed end of the pin.

Regarding claim 12, the body 4 is a circuit board having a periphery, and wherein each of the tips extends beyond the periphery.

Regarding claim 14, each pin is received in a sleeve 36 mounted electrically connected to a conductor 31 on the body, and wherein each pin axially reciprocates with in the sleeve.

Regarding claim 17, second portions each have a flange, the flanges being spaced apart and connected to the electrical component.

Claim 21-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Hadwin et al. 4,739,259. Regarding claim 21, Hadwin et al. disclose an electrical probe 12 comprising: a conductive sleeve 44 defining a bore; a probe pin received in the bore; the probe pin having a free end contact tip 30 extending in a first direction; the probe pin being biased (spring loaded) in the first direction; and the probe pin including a capacitor (on 34).

Regarding claim 22, the probe pin also includes a resistor having substantially greater resistance than the pin (col. 2, lines 60-65).

Regarding claim 23, the capacitor is connected in parallel with the resistor.

Allowable Subject Matter

Claims 7,8,20, 27 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including **all** of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: regarding claim 7, patentability resides, at least in part in the component being attached between the flanges, in combination with the other limitations of the base claim.

Response to Arguments

Applicant's arguments filed March 14 2005 have been fully considered but they are not persuasive. Regarding claims 9 and 10, Applicant's remarks have been considered. However, the above mentioned limitations are not patentably significant since they relate to the size of the article under consideration which is not ordinarily a matter of invention. In re Yount, 36 C.C.P.A. (Patents) 775, 171 F. 2d 317, 80 USPQ 141.

In response to Applicant's arguments that Calma does not serially intervene, the Examiner disagrees. Calma electrically serially intervenes.

Applicant's arguments with respect to claims 1,6 9 and 10 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Briggitte R. Hammond whose telephone number is 571-272-2006. The examiner can normally be reached on Mon.-Thurs. and Alternate Fridays from 7:30-5:00.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Briggitte R. Hammond Primary Examiner Art Unit 2833

May 28, 2005